

Patent Claims

- 5 1. Cooling ceiling installation with at least one heat
exchanger, a valve, which controls the flow of a heat
transfer medium through the heat exchanger and a me-
chanical control device, and a monitoring device
against condensate formation, **characterised in** that
10 the monitoring device (4, 5, 6, 11) has an adjustment
drive (39), which mechanically displaces the control
device (4) to a state, in which the valve (3) is
closed.
- 15 2. Installation according to claim 1, characterised in
that the adjustment drive (39) is located on a unit
formed by the valve (3) and the control device (4).
3. Installation according to claim 1, characterised in
20 that the control device has a sensing device (5) lo-
cated remotely from the valve (3), and that the ad-
justment drive (39) is arranged on the sensing device
(5).
- 25 4. Installation according to one of the claims 1 to 3,
characterised in that the adjustment drive comprises
a motor and a gear (36, 37).
5. Installation according to claim 4, characterised in
30 that the motor is a rotary motor.
6. Installation according to one of the claims 1 to 5,
characterised in that the adjustment drive (39) has

an end position sensor (50) indicating a completely closed state of the valve (3).

- 5 7. Installation according to claim 6, characterised in that the end position sensor (50) detects, if a transfer element (22) of the adjustment drive (39) loads a tappet (23) of the valve (3).
- 10 8. Installation according to one of the claims 1 to 7, characterised in that the monitoring device (6) has a sensor in the form of a dew-point sensor or a humidity sensor.
- 15 9. Installation according to claim 8, characterised in that the sensor (7) is arranged on the heat exchanger (2) or its inlet (8).
- 20 10. Installation according to one of the claims 1 to 9, characterised in that the monitoring device (6) is located laterally next to a space, which forms an extension of the lifting movement of a valve element (18) of the valve (3).
- 25 11. Installation according to one of the claims 1 to 10, characterised in that the adjustment drive (39) adjusts a desired value (S).
- 30 12. Installation according to one of the claims 1 to 11, characterised in that the adjustment drive (39) mechanically blocks an active connection between the valve (3) and the control unit (4).

13. Installation according to one of the claims 1 to 11, characterised in that further to the heat exchanger (2) a heating surface (9) is provided, whose operating member is connected with the valve (3).

5

14. Installation according to claim 13, characterised in that the operating member (10) is a heating valve, which is controlled by the valve (3) with a follow-up control, a neutral zone (N) being provided between the activation of the valve (3) and the heating valve (10).
- 10